

INTERNATIONAL SEARCH REPORT

International Application No.

PCT/GB2004/002426

A. CLASSIFICATION OF SUBJECT MATTER
 IPC 7 C07F15/00 C07F9/02 B01J31/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C07F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, CHEM ABS Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P, X	DOMINGUEZ, BEATRIZ ET AL: "Electrophilic Substitution of Dibromoparacyclophane: A Route to Novel Paracyclophane Phosphine Ligands" ORGANIC LETTERS, 6(12), 1927-1930 CODEN: ORLEF7; ISSN: 1523-7060, 2004, XP002293802 schemes 2,3 tables 1,2 ----- A W0 01/74829 A (CHIROTECH TECHNOLOGY LTD) 11 October 2001 (2001-10-11) cited in the application column 17 ----- A US 5 276 053 A (JOHNSON GRAHAM) 4 January 1994 (1994-01-04) column 17 -----	1-13,15
		1,11
		-/-



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
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- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

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- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *8* document member of the same patent family

Date of the actual completion of the international search

25 August 2004

Date of mailing of the international search report

15/10/2004

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GB2004/002426

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	BARTHOLOMEW, GLENN P. ET AL: "Synthesis, Characterization, and Spectroscopy of 4,7,12,15-'2.2!Paracyclophane Containing Donor and Acceptor Groups: Impact of Substitution Patterns on Through-Space Charge Transfer" JOURNAL OF THE AMERICAN CHEMICAL SOCIETY , 124(18), 5183-5196 CODEN: JACSAT; ISSN: 0002-7863, 2002, XP002293803 page 5187; compound 13	9
X	PELTER, ANDREW ET AL: "The synthesis of homochiral ligands based on '2.2!paracyclophane" TETRAHEDRON LETTERS , 42(47), 8391-8394 CODEN: TELEAY; ISSN: 0040-4039, 2001, XP004311327 page 8392; figure 2; compound 20	9,10
X	DATABASE CHEMABS 'Online! CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; NOUR-EL-DIN, AHMED M. ET AL: "Chemical reactions on thin-layer chromatoplates: Part I. Reactions of nitrones and '2.2!paracyclophanes" XP002293804 retrieved from STN Database accession no. 1983:575529 abstract & INDIAN JOURNAL OF CHEMISTRY, SECTION B: ORGANIC CHEMISTRY INCLUDING MEDICINAL CHEMISTRY , 22B(5), 477-80 CODEN: IJSBDB; ISSN: 0376-4699, 1983,	9,10

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Information on patent family members

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